

PC-0039 US

<110> Chen, Huei-Mei
Honchell, Cynthia D.
Tang, Y. Tom

<120> Mucin-Related Tumor Marker

<130> PC-0039 US

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agaggccctg gttgatggta aaattgatga aaataaatgg tgggattgtg acacagaggg 180
cagaggcaaa ggaggccctg aagaagaaga agaggaggag gaggaagagg aggaggagga 240
gtcactaaca aactcagcat cagtgtccag aacaaccgaa gtgttcggca tattaatggg 300
gggtgtgtag gacggaaggt tggatgtatg cagaactggc gactcagtag aaggctgagc 360
atattccccg tcataggatg agatgttact tctctcagtc tgagcatgag aaaaggagga 420
atactctgaa tgtgaagagt ttgagatttt aatataagaa gttgagctct ccacaatgtc 480
tgaggatgaa ctgttatctg taatggacag taacgcccgt tctccttttg tgaaagtaga 540
tgacaggtag gtgtgggtctg tgtgggtcgt ggaagtcctt tggtcaatag ctgtgccacg 600
cacttgaccg tagctaattc cagcgattga acgttctcca cgtgggtgctg atgaattcaa 660

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gctttccgag gaagatgtcg atgaagacct ctgaataact cctatctccc aatgctgtgt 720
gacttcctcc agactgtaca gtagagtctg agaactgggt caacactgaa gcattcacac 780
cttcaggata atgaagcaga gttcctgtca catctgcaga tgttggtgctg tgggccaaaga 840
gcccggtgtgc agtggatccc tccaccctct catgggtgcg aatgacctag acccagctcc 900
agtctgagac 910

<210> 5
<211> 643
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 71060123V1

<400> 5
agtatcctta acgacatcta catctgcccc actttctgtc tcacaaacaa ccttgccaca 60
gtcatcttct acccctgtcc tgcccagggc aaggggagact cctgtgactt catttcagac 120
atcaacaatg acatcattca tgacaatgct ccatagtagt caaactgcag accttaagag 180
ccagagcacc ccacaccaag agaaagtcac tacagaatca aagtcaccaa gcctgggtgtc 240
tctgccacca gagtccacca aagctgtaac aacaaactct ccttgccctc atccttaaca 300
gagtcctcca cagagcaaac ccttcacagc acaagcacca acttagcaca aatgtctcca 360
actttcacaa ctaccattct gaagacctct cagcctctta tgaccactcc tggcacctcg 420
tcaagcacag catctctggt cactggccct atagccgtac agactacagc tggaaaacag 480
ctctcgctga cccatcctga aatactagtt cctcaaatct caacagaagg tggcatcagc 540
acagaaagga accgagtgat tgtggatgct accactggat tgatcccttt gaccagtgtg 600
cccacatcag caaaagaaat gaccacaaag cttgggggtta cag 643

<210> 6
<211> 554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7437161H1

<400> 6
tgtaccacaca tcagcaaaaag aaatgaccac aaagcttggc gttacagcag agtacagccc 60
agctttcacgt tccctcggaa catctccttc tcccaaaacc acagttgttt ccacggctga 120
agacttgggt cccaaatctg ccacctttgc tgttcagagc agcacacagt caccaacaac 180
actgtcctct tcagcctcag tcaacagctg tgctgtgaac ccttgtcttc acaatggcga 240
atgcgtcgca gacaacacca gccgtggcta ccaactgcagg tgcccgcctt cctggcaagg 300
ggatgattgc agtgtggatg tgaatgagtg cctgtcgaac ccctgcccac ccacagccac 360
gtgcaacaat actcagggat cctttatctg caaatgcccg gttgggtacc agttggaaaa 420
agggatatgc aatttgggtta gaaccttcgt gacagagttt aaattaaaga gaacttttct 480
taatacaact gtggaaaaac attcagacct acaagaagtt gaaaatgaga tcacccaaac 540
gttaaataatg tggt 554

<210> 7
<211> 571
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 71247228V1

<400> 7
gatcaccaaaa acgttaaata tgtgtttttc agcgttacct agttacatcc gatctacagt 60
tcacgcctct agggagtcca acgcggtggg gatctcactg caaacaacct tttccctggc 120

030430 062303

```
<210> 8
<211> 433
<212> DNA
<213> Homo sapiens
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<400> 8						
tgaacttgc	atgagttgtc	cattcagcct	tgggtgggtctc	aactgtggaa	acccctatca	60
gcttatcact	gtgggtgatcg	cagccgcggg	aggtgggctc	ctgctcatcc	taggcatcgc	120
actgattgtt	acctgttgca	gaaagaataa	aaatgacata	agcaaactca	tcttcaaaag	180
tggagatttc	caaatgtccc	cgtatgctga	ataccccaaa	aatcctcgct	cacaagaatg	240
gggccgagaa	gctattgaaa	tgcattgagaa	tgggaagtacc	aaaaacctcc	tccagatgac	300
ggatgtgtac	tactgccta	caagtgttaag	gaatccagaa	cttgaacgaa	acggactcta	360
cccggtctac	actggactgc	caggatcacg	ggattcttgc	attttccccg	gacagtataa	420
accgtctttc	atc					433

```
<210> 9
<211> 538
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<223> Incyte ID No: 7735769H1
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<400> 9						
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cggatgtgta	ctactcgctt	acaagtgtaa	ggaatccaga	acttgaacga	aacggactct	120
accgcgccta	cactggactg	ccaggatcac	ggcattcttg	cattttcccc	ggacagtata	180
accgctcttt	catcagtgat	gaaagcagaa	gaagagacta	cttttaagtc	caggagagag	240
agggactcat	tgctctgagc	cagtcacctg	ggacctctgc	tcagaggacc	gcaccaggag	300
gctgcgcccc	ggatttgtcg	ggagccacgc	tgagtggtgaa	gcaggcaacga	gggacaggca	360
tgcggggcgt	gaccacagtg	gaggagacag	gtgtagtgtg	aaccacaggc	tgctcattca	420
gcacctttgt	tgttactgtg	aacgtgaatg	tgggccagta	tcaagagagt	ctctctgagt	480
gactgcacca	tggcactggc	accagggcga	ctattagcca	gggcagacca	ctagactt	538

```
<210> 10
<211> 567
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<223> Incyte ID No: 7180688H1
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```
<400> 10
ctagacttca gtgcaggacc tggttttccc ttcgtttgca ctttagtaaa ttgggtggga 60
ggtttccttt tggatctgtt ttgagactgt tccagaaaga aggcttcctt tcccgagaca 120
cttccatagg cagcaatttg gtgattcatt tgcagcaaaa tactggcttg ttaattattt 180
```

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```
tcttgcccag cgctgcgtg ctaaacaaca gatgaggatg agcgtaccac tgaagtctga 240
agatgtcgcc attgaacgga cagtgttttc atatgtttct aggttgctct atgctacagt 300
ttccaagcca gccccacag tgaggaaatg tgtgaggcac cgcacacaac tgcaatgtgt 360
tttttaagtc aaggtgacac atgtatttaa gatttttttt taaaatctct ttgcagttaa 420
atctcacttt ttcaaacaag cctggatcag ggcaaaacaa cttatatttg gtttttagctg 480
gaggctcagc aggagattg caggcagggg ggcacttttc atccatgaga ggccagcctg 540
gggcctggga ctctgatcac cattgtg 567
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<210> 11

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70650868V1

<400> 11

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ctcacttcat ccaaaaccag gatgcccaca agaaggccaa taaacacagt tccccaggtg 60
gcaattaaag acaccgagta ctggatgtct ccctggcagg acccacatca caggcataat 120
aaataagatg agtggaaactt ccttcccga ggtcaaccct cagttcctcg accaaccgga 180
agtcttcagt tctccacac tgactggaag tataaccacg tttctggagg gtgcgacaca 240
gccatatgaa gaggtacaaa tgactgggtg agaaaaaaaaa gttatttctt cagccgaata 300
aacagctttg agtggttgaa agtttacatg gggtttgtgg acatgagatt ctgggtacaa 360
agtgtctcag tagccggtga gcaaactcat gtgtgggtcc atctcggtc cctgttcttc 420
ctcaggaatc cacacagctt cccaaagcac tgttgatgca ggaaatctaa cctggctatt 480
cagcccatcc ctctaaccac atccagctgc aggggctcaa caagctgctt tctagagtg 540
gtgaaacctg cgttcagttt gacattttct cctccataag cagggtgctc tggcctccac 600
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<210> 12

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2359874T6

<400> 12

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gaagaaacaa ccatgcccg ggcagaactg tccccagtg ctgcaccatt tccagaaatg 60
tgaagcgagg ctccccgctt cagggtggag acaattcttt tacctctgta tccccctcac 120
ttcatccaaa accaggatgc cccaaagaag gccataaac acagttcccc aggtggcaat 180
taaagacacc gagtactgga tgtctccctg gcaggacca catcacaggc ataataaata 240
agatgagtg aacttccttc ccgaagtcaa ccctcagttc ctcgaccaac cggaagtctt 300
cagttctccc aactgactg gaagtataac cacgtttctg gagggtgcga cacagccata 360
tgaaggaaatt c 371
```

<210> 13

<211> 399

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2359874R6

<400> 13

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cttcatatgg ctgtgtcgca ccctccagaa acgtggttat acttccagtc agtgtgggag 60
aactgaagac ttccggttgg tcgaggaact gaggggtgac cttcggaag gaagttccac 120
tcatcttatt tattatgcct gtgatgtggg tctgccagg gagacatcca gtactcggtg 180
tctttaattg ccacctgggg aactgtgttt attggccttc tttggggcat cctgggtttt 240
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06840746-042301

```
<210> 14
<211> 595
<212> DNA
<213> Homo sapiens
```

<400> 14						
tttggggcat	cctggtttttg	gatgaagtga	ggggaataca	gaggtaaaaag	aattgtctcc	60
accctgaagc	ggggagtgccc	gcttcacatt	tctggaaatg	gtgcagccac	tggggacagt	120
tctgccccgg	gcatggttgt	ttcttcaagg	tcctctaaat	ataatcccta	ttcttacata	180
atcctgtggc	ctgatggttt	taagcaagaa	ctcctgtgtc	ccatgggtctc	caccactcac	240
catcacccctg	ctgtagcaag	agtcctagtc	aggggaggtg	catttttagta	gttaaattggc	300
acttatccat	gagataaata	aaaggagAAC	tgtttttatc	agtggagggt	aacctaaaat	360
ttcaaagtgt	cgcccttttgg	aaactctggg	cctctctctc	tgtagaacca	atggcccttg	420
gtggctcacg	gcctcgcacc	ctaactggag	agttctgagc	tcttgacgt	cacctgagcc	480
cagagactag	gcttcttggc	tccttcgcga	gcaggctggt	tcaccccgaga	acccgcagct	540
gtgggaagag	ccatgtaggg	aggctaattc	caggcataca	cttccactgc	cttca	595

```
<220>  
<221> misc_feature  
<223> Incyte ID No: 1241344R6
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```
<220>  
<221> unsure  
<222> 442, 460, 515  
<223> a, t, c, g, or other
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<400> 15						
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gggaggctat	tcccaggcat	acacttccac	tgccttcagc	tgacgtcaca	gctgacaaat	180
catctcctct	atcggagcca	gaagacttca	gctccacaaa	atgaagtgtt	ctgtcctgaa	240
aacattcttg	ggaagaatcc	caacatcgag	aaaacggtgt	cctgtgagtt	ccaacaatgc	300
ttcttgttca	tgggtttctt	ccgtatggag	tggattaaga	gtgttttatt	ttgttgttct	360
aactgagaaa	aaaaggaggc	accacaagg	ttgaggtcac	acagtctcca	cagtttccag	420
gaagcgtttg	ggggtgggga	angcacctcc	agagcatgan	ggctctaagg	ggacatgagt	480
aaagcatgtc	tgtgaccag	tgaggaaagg	gagangccag	ctgcactcct	gcaacggggg	540
ttcctagct						549

```
<210> 16
<211> 272
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<223> Incyte ID No: 008938H1
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<220>

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<221> unsure
<222> 75, 106, 112, 163, 167, 192, 252
<223> a, t, c, g, or other

<400> 16
ggagaggcca gctgcactcc tgcacggggt tcctagctgc agaagggtcc cgcctaggcc 60
gaggggaaac acctnatagc agaagaggcc tggatgcaca cctgggnacgc cnaggctctc 120
cgcccagaca cagtgtccca tgtcaacccc tgcacctggg gtntgtgnatt cacgtgcaca 180
gatgccacaa tntgcacca atatcccaca gatgggggaa ggtgagagga aggggcaagt 240
aatgtgtacc tntcaagag atgcttaaac ct 272

<210> 17
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2580841F6

<220>
<221> unsure
<222> 162, 251
<223> a, t, c, g, or other

<400> 17
ggtttaagct ccagagggtc ttattgccat tgtcttttcc tctgcccctt gagccagcct 60
aaggccctgg agtctgttcc ttttaggcgga tgaactgaca tgctcctacc atgaccaggc 120
tctgggcaag gctcctcaca gtatccttga gaggtgggca tngaagtgcc catttctcag 180
gtacagaaac cttcagagag gataaatagc ttgcccctgta gaagcaggac tgaaaccctt 240
gtccgcctga ntccccccage tactctgccc actgtagccc cctgccttac tgctcctggca 300
caccctcac catcctgtat accttaaata tcaaagaggg caagagagaa agggcctttaa 360
agataagtta tttttttaag gaaccttaat attattttta agaagtaacc aaattagtga 420
cgtg 424

<210> 18
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 70621193V1

<400> 18
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gctttaaaga taagttattt ttttaaggaa ccttaatat atttttaaga agtaacccaaa 120
ttagtgacgt gaaatgcaaa aaaaaaaaaa aaaaatgtct gactaccctt ttggaaaagt 180
gtgcttccag attggctttt ttatagtgtg attctttaga cacttggtca ttaagaaaaa 240
tagtggcggg ctggtgcttc agcaagaagc acacgggcac ggtggccttg gatataggag 300
gtggaaggca aggaccgggt gtttctggac aggtggcggc cagacttaca cttccatctg 360
gagagctggg ggcttttggt cccctgggtag ggccatgggt tccccactat tactgggaag 420
ctatagggtg 430

<210> 19
<211> 957
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature

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<223> Genbank ID No: g2853301

<400> 19

Ile	Thr	Ile	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Tyr	Thr	1	5	10	15
Thr	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Pro	Ser	His	Ser	Thr	Pro	Ser	20	25	30	35
Tyr	Thr	Thr	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Pro	Ser	His	Ser	Thr	40	45	50	55
Pro	Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	60	65	70	75
Ser	Thr	Pro	Ser	Phe	Thr	Ser	Ser	Ile	Arg	Thr	Thr	Glu	Thr	Thr	80	85	90	95
Ser	Tyr	Ser	Thr	Pro	Ser	Phe	Thr	Ser	Ser	Asn	Thr	Ile	Thr	Glu	100	105	110	115
Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Tyr	Ile	Thr	Ser	Ile	Thr	Thr	120	125	130	135
Thr	Glu	Thr	Pro	Ser	Ser	Ser	Thr	Pro	Ser	Phe	Ser	Ser	Ser	Ile	140	145	150	155
Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Gly	Phe	Thr	Ser	160	165	170	175
Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Phe	180	185	190	195
Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Asp	Thr	Pro	200	205	210	215
Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Ser	Glu	Thr	Pro	Ser	His	Ser	220	225	230	235
Thr	Pro	Ser	Ser	Thr	Ser	Leu	Ile	Thr	Thr	Thr	Lys	Thr	Thr	Ser	240	245	250	255
His	Ser	Thr	Pro	Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	260	265	270	275
Thr	Ser	His	Ser	Ala	Arg	Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	280	285	290	295
Glu	Thr	Thr	Ser	His	Asn	Thr	Arg	Ser	Phe	Thr	Ser	Ser	Ile	Thr	300	305	310	315
Thr	Thr	Glu	Thr	Asn	Ser	His	Ser	Thr	Thr	Ser	Phe	Thr	Ser	Ser	320	325	330	335
Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Phe	Ser	340	345	350	355
Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Pro	Leu	His	Ser	Thr	Pro	Gly	360	365	370	375
Leu	Pro	Ser	Trp	Val	Thr	Thr	Thr	Lys	Thr	Thr	Ser	His	Ile	Thr	380	385	390	395
Pro	Gly	Leu	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	400	405	410	415
Ser	Thr	Pro	Gly	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	420	425	430	435
Ser	Glu	Ser	Thr	Pro	Ser	Leu	Ser	Ser	Ser	Thr	Ile	Tyr	Ser	Thr				
Val	Ser	Thr	Ser	Thr	Thr	Ala	Ile	Thr	Ser	His	Phe	Thr	Thr	Ser				
Glu	Thr	Ala	Val	Thr	Pro	Thr	Pro	Val	Thr	Pro	Ser	Ser	Leu	Ser				
Thr	Asp	Ile	Pro	Thr	Thr	Ser	Leu	Arg	Thr	Leu	Thr	Pro	Ser	Ser				
Val	Gly	Thr	Ser	Thr	Ser	Leu	Thr	Thr	Thr	Thr	Asp	Phe	Pro	Ser				
Ile	Pro	Thr	Asp	Ile	Ser	Thr	Leu	Pro	Thr	Arg	Thr	His	Ile	Ile				
Ser	Ser	Ser	Pro	Ser	Ile	Gln	Ser	Thr	Glu	Thr	Ser	Ser	Leu	Val				

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Gly	Thr	Thr	Ser	Pro	Thr	Met	Ser	Thr	Val	Arg	Met	Thr	Leu	Arg
				440					445					450
Ile	Thr	Glu	Asn	Thr	Pro	Ile	Ser	Ser	Phe	Ser	Thr	Ser	Ile	Val
				455					460					465
Val	Ile	Pro	Glu	Thr	Pro	Thr	Gln	Thr	Pro	Pro	Val	Leu	Thr	Ser
				470					475					480
Ala	Thr	Gly	Thr	Gln	Thr	Ser	Pro	Ala	Pro	Thr	Thr	Val	Thr	Phe
				485					490					495
Gly	Ser	Thr	Asp	Ser	Ser	Thr	Ser	Thr	Leu	His	Thr	Leu	Thr	Pro
				500					505					510
Ser	Thr	Ala	Leu	Ser	Thr	Ile	Val	Ser	Thr	Ser	Gln	Val	Pro	Ile
				515					520					525
Pro	Ser	Thr	His	Ser	Ser	Thr	Leu	Gln	Thr	Thr	Pro	Ser	Thr	Pro
				530					535					540
Ser	Leu	Gln	Thr	Ser	Leu	Thr	Ser	Thr	Ser	Glu	Phe	Thr	Thr	Glu
				545					550					555
Ser	Phe	Thr	Arg	Gly	Ser	Thr	Ser	Thr	Asn	Ala	Ile	Leu	Thr	Ser
				560					565					570
Phe	Ser	Thr	Ile	Ile	Trp	Ser	Ser	Thr	Pro	Thr	Ile	Ile	Met	Ser
				575					580					585
Ser	Ser	Pro	Ser	Ser	Ala	Ser	Ile	Thr	Pro	Val	Phe	Ser	Thr	Thr
				590					595					600
Ile	His	Ser	Val	Pro	Ser	Ser	Pro	Tyr	Ile	Phe	Ser	Thr	Glu	Asn
				605					610					615
Val	Gly	Ser	Ala	Ser	Ile	Thr	Gly	Phe	Pro	Ser	Leu	Ser	Ser	Ser
				620					625					630
Ala	Thr	Thr	Ser	Thr	Ser	Ser	Thr	Ser	Ser	Ser	Leu	Thr	Thr	Ala
				635					640					645
Leu	Thr	Glu	Ile	Thr	Pro	Phe	Ser	Tyr	Ile	Ser	Leu	Pro	Ser	Thr
				650					655					660
Thr	Pro	Cys	Pro	Gly	Thr	Ile	Thr	Ile	Thr	Ile	Val	Pro	Ala	Ser
				665					670					675
Pro	Thr	Asp	Pro	Cys	Val	Glu	Met	Asp	Pro	Ser	Thr	Glu	Ala	Thr
				680					685					690
Ser	Pro	Pro	Thr	Thr	Pro	Leu	Thr	Val	Phe	Pro	Phe	Thr	Thr	Glu
				695					700					705
Met	Val	Thr	Cys	Pro	Thr	Ser	Ile	Ser	Ile	Gln	Thr	Thr	Leu	Thr
				710					715					720
Thr	Tyr	Met	Asp	Thr	Ser	Ser	Met	Met	Pro	Glu	Ser	Glu	Ser	Ser
				725					730					735
Ile	Ser	Pro	Asn	Ala	Ser	Ser	Ser	Thr	Gly	Thr	Gly	Thr	Val	Pro
				740					745					750
Thr	Asn	Thr	Val	Phe	Thr	Ser	Thr	Arg	Leu	Pro	Thr	Ser	Glu	Thr
				755					760					765
Trp	Leu	Ser	Asn	Ser	Ser	Val	Ile	Pro	Leu	Pro	Leu	Pro	Gly	Val
				770					775					780
Ser	Thr	Ile	Pro	Leu	Thr	Met	Lys	Pro	Ser	Ser	Ser	Leu	Pro	Thr
				785					790					795
Ile	Leu	Arg	Thr	Ser	Ser	Lys	Ser	Thr	His	Pro	Ser	Pro	Pro	Thr
				800					805					810
Thr	Arg	Thr	Ser	Glu	Thr	Pro	Val	Ala	Thr	Thr	Gln	Thr	Pro	Thr
				815					820					825
Thr	Leu	Thr	Ser	Arg	Arg	Thr	Thr	Arg	Ile	Thr	Ser	Gln	Met	Thr
				830					835					840
Thr	Gln	Ser	Thr	Leu	Thr	Thr	Thr	Ala	Gly	Thr	Cys	Asp	Asn	Gly
				845					850					855
Gly	Thr	Trp	Glu	Gln	Gly	Gln	Cys	Ala	Cys	Leu	Pro	Gly	Phe	Ser
				860					865					870
Gly	Asp	Arg	Cys	Gln	Leu	Gln	Thr	Arg	Cys	Gln	Asn	Gly	Gly	Gln
				875					880					885
Trp	Asp	Gly	Leu	Lys	Cys	Gln	Cys	Pro	Ser	Thr	Phe	Tyr	Gly	Ser

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Ser	Cys	Glu	Phe	Ala	Val	Glu	Gln	Val	Asp	Leu	Asp	Ala	Glu	Asp
				890					895					900
				905					910					915
Phe	Cys	Arg	His	Ala	Gly	Leu	His	Leu	Gln	Gly	Cys	Gly	Asp	Pro
				920					925					930
Val	Pro	Glu	Glu	Trp	Gln	His	Arg	Gly	Gly	Leu	Pro	Gly	Pro	Ala
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Gly	Asp	Ala	Leu	Gln	Pro	Pro	Ala	Gly	Glu	Arg	Val			
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<212> PRT

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<220>

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<223> Genbank ID No: g915208

<400> 20

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Ser	Thr	Thr	Ser	Val	Gln	Ser	Ser	Ser	Ser	Ser	Ser	Val	Pro	Ile
				20					25					30
Pro	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Gly	Ser	Ala	Pro
				35					40					45
Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Thr	Ser	Ser	Ser	Ser	Ser	Pro
				50					55					60
Pro	Ile	Ser	Ser	Thr	Ile	Ser	Val	Gln	Thr	Ser	Ser	Ser	Ser	Ser
				65					70					75
Val	Pro	Thr	Thr	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser
				80					85					90
Ser	Ala	Pro	Thr	Thr	Arg	Ala	Thr	Ser	Val	Gln	Ser	Ser	Ser	Ser
				95					100					105
Ser	Ser	Ala	Pro	Ile	Ser	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser
				110					115					120
Ser	Gly	Ser	Val	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Ser	Ser
				125					130					135
Ser	Ser	Ser	Ser	Ala	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro
				140					145					150
Ser	Ser	Ser	Ser	Ser	Pro	Pro	Ile	Ser	Ser	Thr	Val	Ser	Val	Gln
				155					160					165
Pro	Ser	Ser	Ser	Ser	Ser	Ala	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val
				170					175					180
Gln	Pro	Ser	Ser	Ser	Ser	Ser	Pro	Pro	Ile	Ser	Ser	Thr	Val	Ser
				185					190					195
Val	Gln	Thr	Ser	Ser	Ser	Ser	Ser	Val	Pro	Thr	Thr	Ser	Thr	Thr
				200					205					210
Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ala
				215					220					225
Thr	Ser	Val	Arg	Ser	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ile	Pro	Ser
				230					235					240
Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Ala	Pro	Thr	Thr
				245					250					255
Ser	Ala	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ile
				260					265					270
Pro	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Ala	Pro
				275					280					285
Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Pro
				290					295					300
Pro	Ile	Ser	Ser	Thr	Ile	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser

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Ser	Pro	Thr	Thr	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Gly
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				320					325					330
Ser	Ala	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser
				335					340					345
Ser	Ser	Pro	Pro	Ile	Ser	Ser	Thr	Ile	Ser	Val	Gln	Pro	Ser	Ser
				350					355					360
Ser	Ser	Ser	Ser	Pro	Thr	Thr	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser
				365					370					375
Ser	Ser	Gly	Ser	Ala	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro
				380					385					390
Ser	Ser	Ser	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Arg
				395					400					405
Ser	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ile	Pro	Thr	Thr	Thr	Ser	Val
				410					415					420
Gln	Pro	Ser	Ser	Ser	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ala	Thr	Ser
				425					430					435
Val	Gln	Thr	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ile	Pro	Ser	Thr	Thr
				440					445					450
Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Ala	Pro	Thr	Thr	Ser	Ala
				455					460					465
Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Pro	Pro	Ile	Ser	Ser
				470					475					480
Thr	Ile	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Ser	Pro	Thr	Thr
				485					490					495
Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Gly	Ser	Ala	Pro	Thr
				500					505					510
Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Pro	Pro
				515					520					525
Ile	Ser	Ser												